

Date: Wed, 17 Feb 93 19:37:43 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #225  
To: Info-Hams

Info-Hams Digest                      Wed, 17 Feb 93                      Volume 93 : Issue    225

Today's Topics:

    Aiport id's. was: Mysterious MF/LF CW signals  
        ALERT: Major Solar Flare Alert  
        Allison Peacock KD4NNH/AG  
        A QRP list?  
        Beware the Jabbawock and VEC  
        dilemma (to drill or not to drill)  
        FAA Radar power?  
        Mods for IC-22S  
        New Kenwood HF Radio TS-50  
        qrp kits  
        Quad for HF  
    Vero Beach stop transmitting order by judge

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
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Date: 17 Feb 1993 22:09:06 GMT  
From: topaz.bds.com!topaz.bds.com!ron@uunet.uu.net  
Subject: Aiport id's. was: Mysterious MF/LF CW signals  
To: info-hams@ucsd.edu

> Some may use Morse code identifiers, others may use voice identifiers. ??

They all have at least Morse Identifiers. You should not rely on any voice  
transmissions to identify nav aids. The voice transmission may be a remote  
broadcast from somewhere else (one way they get better range in aviation is  
to use the audio channel of these stations, which is generally wasted sending

a morse id as part of a repeater system, sometimes they use them to play tape recorded weather). If the VOR is down for service, the morse identifier is always removed, the voice functions may continue to work (as well as it putting out a bogus navigational signal).

-Ron

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Date: 17 Feb 93 18:29:01 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: ALERT: Major Solar Flare Alert  
To: info-hams@ucsd.edu

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

MAJOR SOLAR FLARE ALERT

ISSUED: 18:00 UT, 17 FEBRUARY

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

\* NIL to Low Impact Possible \*

MAJOR ENERGETIC EVENT SUMMARY:

( All times are valid for the UT day of 17 February )

Flare Size: Class M5.8/SF  
Location: N18E04 (Region 7425)  
Tenflare: None reported.  
SESC Times: Begin=17/1032 UT, Peak=17/1040 UT, End=17/1058 UT  
(SESC Times are based on a half-power-point system)  
Sweeps: No Sweeps Reported

PRELIMINARY X-RAY TIME PROFILE DATA AND ESTIMATED STATISTICS:

BEGIN (XRAY)	MAX (XRAY)	END (XRAY)	DURATION	INTEG. FLUX	SWF DUR.
-----	-----	-----	-----	-----	-----
1032 (C1.5)	1040 (M5.8)	1152 (C9.9)	079 MIN.	0.114 J/m^2	076 min

NOTE: The xray time profile data above is not based on the half-power-point system, but is intended to give a general idea of the duration of the entire event, from the start to the end when xrays fall below M-class levels. Integrated x-ray flux covers the interval from start to end.

## SYNOPSIS:

It appears this major flare was the result of simultaneous flaring from Regions 7420 and 7425. Region 7420 is on the west limb and produced an optically small flare while Region 7425 (which is near the central meridian) generated a flare of its own. The combined x-rays from these flares are thought to have been sufficient to push x-rays above the M5 threshold. More detail will be made available in the daily activity summary for 17 February.

In x-rays, this flare had a fairly impressive long-decay signature, but lacked significant radio activity. There were no reported Type II or IV sweeps and only weak discrete radio emissions. A moderate short wave fadeout accompanied this flare that affected frequencies to about 12 or 15 MHz.

## POTENTIAL TERRESTRIAL IMPACT ASSESSMENT:

The following tables depict the preliminary estimated potential for terrestrial impacts in various categories. These tables are valid only for the flare described and do not include assessments for previous influential flare events.

### POTENTIAL MAGNITUDE OF DISTURBANCE

HIGH : 01 %  
MODERATE : 10 %  
LOW : 35 %  
NONE : 54 %

OVERALL ARRIVAL PROBABILITY : 40 %

### ESTIMATED WINDOW OF SHOCK ARRIVAL IF SHOCK ARRIVES

MINIMUM	EARLY	PREFERRED	LATE	MAXIMUM
18/2100 UT	19/0200 UT	19/1000 UT	19/1800 UT	19/2300 UT
FEBRUARY	FEBRUARY	FEBRUARY	FEBRUARY	FEBRUARY
5 %	45% PROBABILITY	45% PROBABILITY		5 %

POTENTIAL FOR >10 MEV PROTONS

POTENTIAL FOR >100 MEV PROTONS

-----  
HIGH FLUX : 0 % > 100 PFU  
MODERATE FLUX : 15 % > 10 PFU  
LOW FLUX : 30 % > 1 PFU  
NONE : 55 % <= 1 PFU  
-----

OVERALL ARRIVAL PROBABILITY: 20 %

-----  
EST. POTENTIAL GEOMAGNETIC IMPACT  
-----

SEVERE STORM : 1 %  
MAJOR STORM : 10 %  
MINOR STORM : 40 %  
ACTIVE OR LESS : 49 %  
-----

PROBABLE SI ASSOCIATION : 40 %

-----  
HIGH FLUX : 0 % > 100 PFU  
MODERATE FLUX : 0 % > 10 PFU  
LOW FLUX : 0 % > 1 PFU  
NONE : 100 % <= 1 PFU  
-----

OVERALL ARRIVAL PROBABILITY: 0 %

-----  
EST. POTENTIAL IONOSPHERIC IMPACT  
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LOW LATITUDES : NIL  
MIDDLE LATITUDES : NIL - MINOR  
HIGH LATITUDES : NIL - MINOR  
POLAR LATITUDES : NIL - MINOR  
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ESTIMATED GLOBAL IMPACT: NIL - MINOR

ESTIMATED POTENTIAL DURATION OF DISTURBANCE AFTER ARRIVAL: 18 TO 32 HOURS

EST. PROBABILITY FOR GEOSYNCHRONOUS SATELLITE MAGNETOPAUSE CROSSINGS: 20 %

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Date: Wed, 17 Feb 1993 21:09:17 GMT  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!gatech!  
concert!samba!usenet@network.UCSD.EDU  
Subject: Allison Peacock KD4NNH/AG  
To: info-hams@ucsd.edu

As the ve who graded her exam(s), I have no doubt that Allison understands basic radio theory. In addition, here is a yl who PRINTS cw, as she is not yet trained to write in cursive. It gets her backed up, but she is now coping by copying words.

May I add that she passed all her theory exams on the first try, and is a very interesting person to talk with ( not like some of the lurkers here). She is an excellent student and will excel in whatever path she chooses.

As a instructor here in Durham, NC I have seen many motivated young people. My 7 year old is currently studing for his novice and 13 wpm code..why because baseball season does not start for a few more months

My 11 year old is KD4WIIQ and has a better grasp on operating procedures

than many....

My 14 year old thinks his old man is nuts and girls are cool...fb, its his choice.....(i used to think this way but as Al Bundy would say ; I'm married...with children)

Why is it that those who never find time to teach, elmer or volunteer within their clubs or communities always have the biggest mouths?

Why ask why?

Keep going Allison, and all the other y1 and ym's

73

AB4VJ-Terry Murphy VE- Durham ARRL and Raleigh W5YI teams

Instructor- Novice/Tech Class Durham County Con.ED

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The opinions expressed are not necessarily those of the University of North Carolina at Chapel Hill, the Campus Office for Information Technology, or the Experimental Bulletin Board Service.  
internet: laUNCHpad.unc.edu or 152.2.22.80

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Date: Wed, 17 Feb 1993 23:32:35 GMT

From: news.service.uci.edu!ttinews!harley!paulb@network.UCSD.EDU

Subject: A QRP list?

To: info-hams@ucsd.edu

In article <1993Feb17.203814.18246@news.ysu.edu> ag821@yfn.ysu.edu (Jeff Gold) writes:

+

+In a previous article, a-kevinp@microsoft.COM (Kevin Purcell, Rho) says:

+

+>Is there a mailing list out there devoted to QRP issues?

+>

+>72

+>Kevin Purcell N7WIM / G8UDP

+>a-kevinp@microsoft.com

+>"We conjure the spirits of the computer with our spells"

+>

+

+If there is, I sure would be interested in it.

Me 2. If there is, can someone kindly post the info for us watt-less types.

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If you get sick from rabbit stew, can you say you are having a bad hare day?  
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Paul Blumstein, paulb@harley.tti.com, DoD #36, ABATE, AMA, HOG, KD6LAA

Transaction Technology, Inc., Santa Monica, CA

-----  
Date: 13 Feb 1993 16:42:14 GMT  
From: topaz.bds.com!topaz.bds.com!ron@uunet.uu.net  
Subject: Beware the Jabbawock and VEC  
To: info-hams@ucsd.edu

> This topic has come up a fair number of times in the past six months,  
> probably because the recent increase in the FCC's processing backlog has  
> been particularly noticable.

This procedure has been in use for the four years that I've been a VE  
and probably longer than that. Why doesn't somebody ask Bart Janke for  
the real reason.

-Ron  
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Date: Thu, 18 Feb 1993 00:25:13 GMT  
From: usc!howland.reston.ans.net!gatech!rpi!rs6415.ecs.rpi.edu!  
maessm@network.UCSD.EDU  
Subject: dilemma (to drill or not to drill)  
To: info-hams@ucsd.edu

In article <MOSBR00K.93Feb16201248@beach.csulb.edu>, mosbrook@csulb.edu (Brent  
Mosbrook) writes:

|> any new, innovative ideas regarding patching the hole if need be?

Cellular telephone antenna?

--

Mat Maessen    N2NJZ            | maessm@rpi.edu

-----+-----  
The opinions expressed in this message definitely do NOT reflect the  
views of RPI, Roland Schmitt, or BAPP

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(c) 1993 Fake-sig Co., Inc.  
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Date: 18 Feb 93 02:10:51 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: FAA Radar power?  
To: info-hams@ucsd.edu

Sounds like altitude sickness to me.

=====

Tonight a friend and I visited a local site, but it was dark and we got kinda turned around and ended up on the wrong peak (two adjacent peaks) and wound up at an FAA Radar Station (Black Mountain, California, near Paso Robles in San Luis Obispo County). It had a great view, so I decided to work a few repeaters in the San Joaquin Valley, and then we both started getting headaches and a bit of eye strain. Yikes. This thing isn't exactly a 3watt cellular telephone.

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Date: Wed, 17 Feb 1993 22:09:27 GMT  
From: saimiri.primate.wisc.edu!sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!news1.boi.hp.com!king@ames.arpa  
Subject: Mods for IC-22S  
To: info-hams@ucsd.edu

I used a 10.24 megahertz xtal and, if I remember, bypassed the flop going into the divide by N. This is similar to the mod using the 5.12 megahertz crystal but I found it easier to locate a 10.24 megahertz crystal (at least for me since I stole it from a CB radio I bought for \$5). You get 10K steps but don't try any duplex stuff because of the messed up offsets. I currently have two 22Ss modified for packet. Oh yeah. You will need to at least retune the helical resonators and probably a little more.

Good luck!  
Steve King (KD7RO)

king@king.boi.hp.com

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Date: 17 Feb 1993 22:31:27 GMT  
From: sun-barr!male.EBay.Sun.COM!news2me.EBay.Sun.COM!grapevine.EBay.Sun.COM!west.West.Sun.COM!l1-a!flloyd@ames.arpa  
Subject: New Kenwood HF Radio TS-50  
To: info-hams@ucsd.edu

We'll I'm surprised that nobody's mentioned this one yet, the new Kenwood TS-50!

Well, I didn't buy one :- ) but a friend of mine did and here's the scoop: (Fresh from a three day old sighting)

The local HRO received three of the radios last Friday and were sold out within one hour. After seeing and playing with it a bit, it's easy to see why: it has to be the neatest mobile HF radio on the market today.

Factoids:

Kenwood TS-50 Mobile HF Transciever (Retail: \$1099)

160-10M General Coverage

100 memories

100 Watts - AM/FM/SSB/CW

Band stacking registers

Black-on-Orange LCD Display (like the TM-741 et. al.)

Small size - very small size....

The radio is roughly the size of a TM-7950, just picture an older model 2M radio. I saw it compared to size of a Sony pull-out car stereo and it was about the same size - in fact, it looks like it would fit into the hole exactly. (I believe this is referred to as a DIN form factor)

Roughly, it's about 2.75 inches tall, 8.5 inches wide and 11 inches deep. The main tuning dial is about 1.5 inches in diameter and has a surprisingly good feel. There are very few buttons and knobs overall as many functions are controlled via setup menus. Total knob count appeared to be 5: two concentric knob shafts plus the main tuning knob (three shafts total). There are probably a total of no more than 10 buttons on the front panel. Many are designed to be less likely to accidentally bump while driving.

The microphone has four programmable buttons to use for the functions of your choice. There are three output power levels, 100,50,10 watts. Microphone gain has only two settings. There is an IF SHIFT, but no notch filter. It has an attenuator, and an AIP circuit. The s-meter is traditional LCD bargraph. The display is easy to read and has adjustable brightness levels.

I noted from the manual that the radio tunes in 5Hz steps and there are about 3 main tuning rates. As you turn the knob faster, the frequency changes faster.

There is no internal tuner option, but there is a button on the front panel to actuate an external unit. There is a new tuner, the AT-50, as well as the AT-300 for the unit. There is very little in the way of I/O connectors on the rear, only two 1/8" jacks for CW and Speaker. Aside from that, there is a 6-pin molex for the auto tuner, the power plug and the antenna connector. TNC connections



are done exclusively through the microphone plug.

There is one filter option, a 500hz CW filter. No other internal options were noted. The standard SSB if bandwidth is 2.4Khz. There is also a 6Khz AM filter installed. PL tone generation is built in.

Out of band mod appears to be a single diode cut, easily standing out as the only lead-mounted device on the board. Not confirmed but highly suspected at this time.

Is it remote controllable? No info at this time. No such options listed in the manual. Head apparently not removable/remotable. Remote control via microphone connection seems likely but unconfirmed.

Steve (KE5YI), the proud new owner reports that the radio is somewhat voltage sensitive and will shut itself down below 12 volts. No further data is available on this tidbit. Case in point however, Steve operates the radio in a Land Rover. Installed in the vehicle are a variety of electronic toys, not the least of which is a Ten-Tec Hercules 500W HF amplifier (12volts). His main antenna is a "Texas Bug Catcher" which does indeed stand tall and proud.

Conclusion: Yaesu and Icom caught with pants down! Kenwood strikes hard and fast with an instant hit! Steve sells his 2 month old Icom 735 for \$675! Ten Tec Amp blamed for burn-out of Sony Pixys GPS receiver! Steve, myself and Samuel Adams agree: Hey, this thing is really cool....

-fred

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[ Fred Lloyd, AA7BQ	Fred.Lloyd@West.Sun.COM ]
[ Sun Microsystems,	Southwest Area Solaris Transition Manager ]
[ Phoenix, AZ	(602) 275-4242 ]

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Date: Wed, 17 Feb 1993 23:40:43 GMT  
From: news.service.uci.edu!ttinews!harley!paulb@network.UCSD.EDU  
Subject: qrp kits  
To: info-hams@ucsd.edu

In article <1993Feb17.050926.2887@ccsvax.sfasu.edu> f\_speerjr@ccsvax.sfasu.edu writes:

+I can now be more explicit about my question on 30 meter QRP tranceiver kits.  
+There are two that I know of available. The Townsend Electronics XCVR 30 at  
+\$164 and the Oak Hills SP-1/Band at \$199. From catalog listings the Oak Hills

+looks superior: superhet instead of DC receiver. 5 watts out instead of 3,  
+build-in keyer etc.

+

+Two questions. First, does this exhaust the list of available kits? Second,  
+has anyone personal experience with both, so he/she can offer a direct  
+comparison?

I have just started using the A&A Engineering 30M QRP kit. It cost ~\$160.  
Check out the 1993 ARRL Handbook for details. There also was a 2 part article  
in QST (Dec 90 & Jan 92, I think) that covers this unit.

It seems to work okay. With 13.8 Volts in, I am putting out 9 Watts.  
I intend to detune it to 5W once I get used to CW. That extra power  
means that if I ever go portable, I can still put out 5w. I use an  
outboard keyer on it.

Also, don't forget the MFJ qrp xcvs. They put out ~ 4 watts,  
but the advantage is that they are built, not kits.

And, if you want to build a kit, find out what kind of test equipment  
is needed. Mfgs don't mention this unless you ask.

Hope to meet you on 30!

-----  
If you get sick from rabbit stew, can you say you are having a bad hare day?  
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Paul Blumstein, paulb@harley.tti.com, DoD #36, ABATE, AMA, HOG, KD6LAA  
Transaction Technology, Inc., Santa Monica, CA

-----  
Date: 17 Feb 93 21:08:42 -0600  
From: sdd.hp.com!usc!wupost!uwm.edu!src.honeywell.com!The-Star.honeywell.com!  
umn.edu!msus1.msus.edu!vca@network.UCSD.EDU  
Subject: Quad for HF  
To: info-hams@ucsd.edu

Does anyone know if someone is still making quad antennas for HF?  
"VC" KC0EM

-----  
Date: Wed, 17 Feb 93 15:46:56 GMT  
From: qualcom.qualcomm.com!walter!porthos!dancer!whs70@network.UCSD.EDU  
Subject: Vero Beach stop transmitting order by judge  
To: info-hams@ucsd.edu

Several days ago someone posted a synopsis of a situation in Vero Beach,

Florida. The bottom line at the moment (as best I recall) is that a local amateur radio operator who has been involved in a lawsuit about his radio antenna tower has been ordered to (1) remove the tower and (2) stop ALL transmissions from his home.

I responded to that with a request as to the existence of a legal defense fund for the ham in question. I've yet to see any follow-up, but I know my post made it to the newsgroup because at least one other person emailed me for info if I knew anything more (I don't). So, let's forget the no-code wars, here's a direct threat at the ability of hams to even transmit as ordered by a Florida judge. If that stands, we're all in deep trouble.

SO.....

- (1) Is there any more info on this case available? If so, would someone please keep us all up-to-date on what is happening please? (I'll do it myself if I knew who to contact.)
- (2) Is there a legal defense fund for this ham?
- (3) Is the ARRL and W5YI informed on the situation?

Now just to point out the worst case possibility here and elsewhere, just think of all the folks who are now being scared silly because of the media focus on RF (cellphone usage, living near power lines, living near transmitter sites, etc.) and electromagnetic fields as possible cancer causes. If you don't think there's at least several thousands of extremists out there that would outlaw ham radio transmission immediately just because they think it might be a health threat, then you sadly underestimate the possibilities.

Standard Disclaimer- Any opinions, etc. are mine and NOT my employer's.

-----  
Bill Sohl (K2UNK) BELLCORE (Bell Communications Research, Inc.)  
Morristown, NJ                      email via UUCP              bcr!cc!whs70  
201-829-2879 Weekdays              email via Internet      whs70@cc.bellcore.com  
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Date: Wed, 17 Feb 1993 22:02:49 GMT  
From: sdd.hp.com!cs.utexas.edu!usc!howland.reston.ans.net!gatech!darwin.sura.net!  
cs.ucf.edu!tarpit!fang!att!allegra!rfc@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <1993Feb14.044939.21516@icd.teradyne.com>,  
<randall.729916104@seashore>, <1lsrj1INNdj2@charnel.ecst.csuchico.edu>ang  
Subject : Re: WARNING: Bogus Mods for HTX202! - Thank You!

In article <1lsrj1INNdj2@charnel.ecst.csuchico.edu> jmeyers@ecst.csuchico.edu  
(Jeff Meyers) writes:

>In article <randall.729916104@seashore> randall@informix.com (Randall Rhea)  
writes:

>  
>>The HTX-202 mod scam began with an April Fool's joke posted  
>>to Usenet and various BBSs last year. The article talked  
>>about all sorts of mods for power, frequency coverage, etc.  
>>Unfortunately, it was written well enough for some people  
>>to be fooled by it. ^^^^^^^^^^^^^^^^^^^^^^^

> |  
> |  
> v  
>  
> Thank You!  
>

>I don't know how proud I am of my "April Fools Joke - Out of Control", but  
>I do appreciate the few complements I have received.

>  
I remember seeing this april fool joke posting. I usually crosspost mod files  
to and from packet and netnews, but I remember that this HTX202 mod  
didn't "feel" right. And so I didn't crosspost it. Turns out that I  
was correct in that it really was bogus.

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Date: Thu, 18 Feb 1993 01:11:03 GMT  
From: sdd.hp.com!caen!sol.ctr.columbia.edu!howland.reston.ans.net!gatech!  
usenet.ins.cwru.edu!neoucom.edu!wtm@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <1993Feb15.093207.3533@samba.oit.unc.edu>,  
<1lsqjeINNk3k@chnews.intel.com>, <1993Feb17.143657.20164@seas.gwu.edu>.edu  
Subject : Re: FAA Radar power?

An acquaintance of mine lived near Johns Hopkins where an  
experimental RADAR system similar to the one described in the  
previous article was in operation several blocks from his home.  
The antenna was not covered by a radome.

He found that if he came home before 5:00 PM that he'd hear  
strange whining noises from various places in his house. It drove  
him batty until one day he noticed that the strange sounds were

coincident with the RADAR array pointing at his house. He eventually got hold of the department running the RADAR and spoke with them. They agreed to put a time slice in the system so that the beam would be switched off while pointing at his house; they'd already done that for several people who lived closer to the array.

--

Bill Mayhew        NEOUCOM Computer Services Department  
Rootstown, OH 44272-9995 USA    phone: 216-325-2511  
wtm@uhura.neoucom.edu (140.220.1.1)    146.580: N8WED

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Date: Thu, 18 Feb 1993 03:21:39 GMT  
From: usc!sdd.hp.com!ux1.cso.uiuc.edu!news.cso.uiuc.edu!uxa.cso.uiuc.edu!  
jtg0707@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <1993Feb15.093207.3533@samba.oit.unc.edu>,  
<1lsqjeINNk3k@chnews.intel.com>, <1993Feb17.143657.20164@seas.gwu.edu>  
Subject : Re: FAA Radar power?

biby@seas.gwu.edu (Rich Biby) writes:

.....deleted.....  
>Yah, 7.5 Megawatts. But don't forget about gain!  
>We were working against a zoning board regarding RF  
>exposure and had to check a couple of these things  
>out completely. My mouth just hung open when I found  
>out it was 6-some-odd Megawatts with about 25 dB gain!

>I think I would freak out if I was ever close enough  
>to one to see it with my own eyes...

Is there any major health hazards working with equipments at that frequency range? Anyone out there have any experiences with radar equipments? Safety tips. (At much lower power, of course.-))

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End of Info-Hams Digest V93 #225  
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